

### **ABSTRACT OF THE INVENTION**

A method of treating an amyloid disease, or a disease characterized by  $\alpha$ -synuclein or NAC fibrillogenesis, in a mammalian subject. The method includes administering to the mammal a therapeutically effective amount of a various disclosed proanthocyanidins or a proanthocyanidin characterized by disclosed general formulae. A pharmaceutical composition comprising a therapeutically effective amount of a proanthocyanidin and a pharmaceutically acceptable excipient. The therapeutic amount of the proanthocyanidin is selected for efficacy in treating amyloid,  $\alpha$ -synuclein or NAC fibrillogenesis in a mammalian subject.